



OfficeStation[®] (L110) User's Guide

Fast Ethernet Version

One PC + OfficeStation solution
= 10 happy users.



nComputing[®]

Safety Instructions

The following instructions pertain to the risk of fire, electric shock or bodily injury. Please read all of these instructions carefully.

1. Save these instructions for later use.
2. Follow all of the instructions and warnings marked on this product or included in this manual.
3. Do not use this system on an unstable cart, stand or table. The product may fall, causing serious damage to the product.
4. Slots and openings in the cabinet and the back have been provided for ventilation. To ensure reliable operation of your computer, and to protect it from overheating, do not block or cover these openings. Don't use this product on a bed, sofa, rug or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation unless proper ventilation is provided.
5. Never push objects of any kind into the system through the cabinet openings. Objects may touch dangerous voltage points or short out parts that could result in a fire or electrical shock. Never spill liquid of any kind on the product.
6. This computer should only be connected to the adapter included with your system. If you want to use other adapter, consult your dealer.
7. Do not allow anything to rest on the power cord. Do not place this product where people can walk or trip on the cord.
8. Unplug your system from the main electrical power outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
9. Do not use this system near water.
10. To avoid generating an electric shock, be sure to plug the power cord into the system before plugging it into the wall socket.
11. For protection of your system and other devices during a lightning storm, or when it is left unattended and unused for long periods of time, unplug the computer and other devices from the wall outlet and disconnect the cable from system. This will prevent damage to the system and other devices due to lighting and power line surges.

Maintenance

If the product does not operate normally, adjust only those controls that are covered in the operating instructions. Improper adjustment of other controls may result in damage and may require extensive repair.

Unplug this product from the main power outlet and call for service under any of the following conditions :

- If the power cord or plug is damage or frayed .
- If the product has been exposed to rain, or water, or other liquids.
- If the product has been dropped or the case has been damaged.
- If the product exhibits a distinct change in performance indicating a need for service.

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Second Edition : Oct. 2005

NComputing, Inc.

Notice

How to register your S/W Serial Number(s) and S/W Activation Key(s)

You will be required to register the S/W Serial Number(s) and S/W Activation Key(s) for your OfficeStation unit(s) either via the Internet or through out offline methods mentioned during setup.

If you eventually need to change the Host PC (or the hard drive within the original Host PC) after you have completed the registration process, the registered S/W Serial Number(s) and S/W Activation Key(s) should be unregistered prior to the change.

You will only be able to register the S/W Serial Number(s) and S/W Activation Key(s) 3 times if the S/W Serial Number(s) and S/W Activation Key(s) were not unregistered from the original Host PC.

(For more details, please refer to 2-30 "NCT-2000-XP Internet Registration" in the manual)

- ※ For the OfficeStation to operate properly, please make sure to check for software updates frequently.

For more details about the software updates, please refer to the manual.

(There is a possibility that a patch from Microsoft can interfere with our product. If a patch causes problems with our software, we should have an update within a few days of the patch release)

- ※ For us to provide better technical support, please input the correct information on the Internet registration form.

(We are not responsible for any incorrect information regarding the Internet registration)



▶ *Registration process may vary depending on your model.*

How to Use OfficeStation® (L110)

For more information about installation and settings, see contents of the user's guide.

- 1 | Install OfficeStation. (Connect the peripheral devices to the OfficeStation terminal)
- 2 | Install the software on the Host PC.
- 3 | Setup the network configuration of the Host PC. (If you are using the Internet)
- 4 | Press the OfficeStation power button and set the configuration of the OfficeStation.
- 5 | You are now ready to start using your OfficeStation terminal.



► To connect the OfficeStation terminal directly to a Host PC, use a crossover LAN cable or Direct LAN cable using the crossover adapter. If you don't use a switch hub or router to connect the OfficeStation, terminal, an additional LAN adapter is required and you must use a crossover LAN cable or a Direct LAN cable attached to the crossover adapter.

In order to access the internet through the OfficeStation terminal, you will need to go to the "Network Setup Wizard". Click "Start", click "Control Panel", double click the "Network Connections" icon, and then click "Set up a home or small office network".

Unpacking the Box

Remove all the items from the box and make sure that the box includes the following items.



OfficeStation(L110) System



User's Guide
(Optional)



Software Installation CD



Direct LAN (CAT5 LAN) Cable
(Optional)



AC Power Adapter

or



AC Power Adapter + AC Power Cable



Note

► Depending on the model, your OfficeStation's components may look slightly different as those pictured.

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Chapter 1

System Introductions

Introductions

Overview

Connecting Peripheral Devices



Introductions

What is OfficeStation® (L110)?

OfficeStation is an unique networking device using WoIP(Windows over IP) based on networking standards. You can share the resources of the Host PC system by connecting OfficeStation terminal(s) to it, thus giving you the benefit of having several networked PCs. You can connect one or more OfficeStation terminals to one Host PC directly using a LAN adapter and cable or via network using a hub/router.

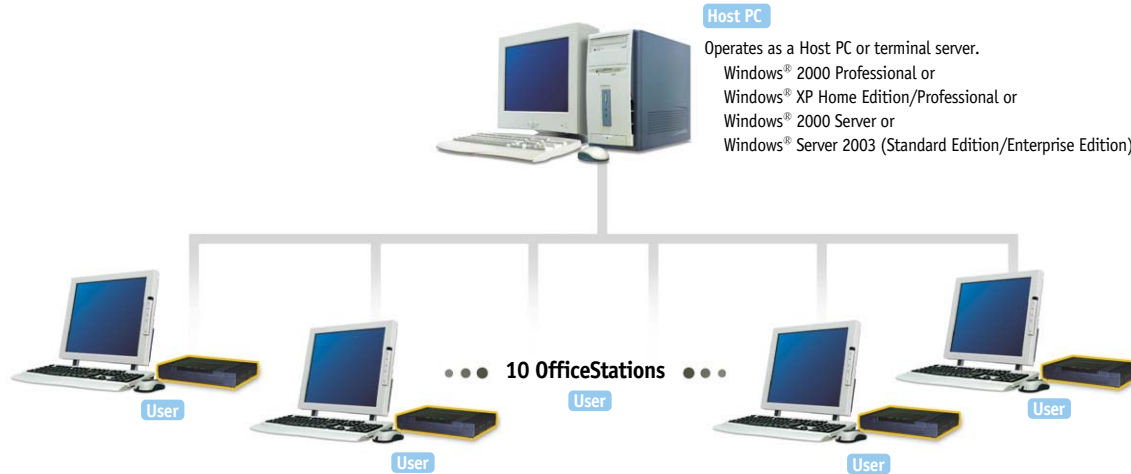
Features

- Convenient Installation.
- Using the OfficeStation terminal replaces a traditional desktop PC at 1/5 the cost.
- You can connect the OfficeStation terminal to a Host PC in a local or remote area via network (TCP/IP) in order to access all resources of that Host PC.
- You can connect one or more OfficeStation terminals to a single Host PC.
- No maintenance required for OfficeStation, only Host PC.



► Depending on the performance of the Host PC, an application's compatibility and operating speed can vary. Refer to our web site for more information.

OfficeStation[®] (L110) Conceptual Diagram



System Requirements

Host PC

- To connect one OfficeStation terminal to a single Host PC, the following system requirement is needed of the Host PC : Intel® Pentium® 4 1.3 GHz processor with at least 256 MB RAM or higher.
- To connect two to three OfficeStation terminal(s) to a single Host PC, the following system requirement is needed of the Host PC : Intel® Pentium® 4 2.4 GHz processor with Hyper - Threading technology with at least 512 MB RAM or higher.
- To connect four to seven OfficeStation terminal(s) to a single Host PC, the following system requirement is needed of the Host PC : Intel® Pentium® 4 3.0 GHz processor with Hyper - Threading technology with at least 1024 MB RAM or higher.
- To connect eight to ten OfficeStation terminal(s) to a single Host PC, the following system requirement is needed of the Host PC : Intel® Pentium® 4 3.2 GHz processor with Hyper - Threading technology with at least 2048 MB RAM or higher.



- ▶ *Do not use a notebook PC as a Host PC. Using notebook PC causes power management or memory problem, as it is using the battery and different technology with desktop PC.*
- ▶ *We recommend the 60GB and 7200rpm or higher hard disk drive.*

OS (Operating System) and To connect to maximum OfficeStation terminal(s)

- Windows® XP Home Edition : 10 units
- Windows® XP Professional : 10 units
- Windows® 2000 Professional : 10 units
- Windows® 2000 Server : 30 units
- Windows® Server 2003 (Standard Edition / Enterprise Edition) : 30 units

MEMO

Overview

Front



Power Indicators

Lights up when the system is on.

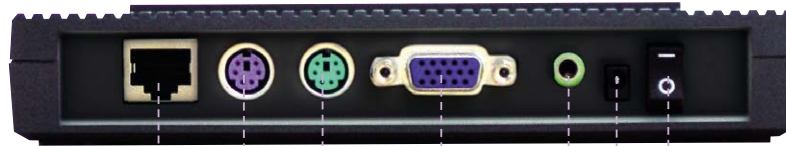
LAN Operation Indicator

Blinks when OfficeStation communicates with Host PC.

Ready Indicator

Lights up when OfficeStation configuration is ready communicate with Host PC.

Rear

**LAN (RJ45) Port**

To connect OfficeStation to the Host PC, plug the network cable into the Host PC.

PS/2 Keyboard Port

Connection for a PS/2 keyboard.

PS/2 Mouse Port

Connection for a PS/2 type mouse.

VGA Monitor Port

Connection for an external monitor.

Speaker/Headphone Jack

Connection for speakers or headphone.

Power Inlet(DC-IN) Jack

Connection for AC power adapter.

Power Switch

Turns On/Off the system.

Connecting Peripheral Devices

To connect the peripheral devices to OfficeStation, refer to the following. (The peripheral devices are optional)

Connecting the Peripheral Device



Connect Ethernet Cable

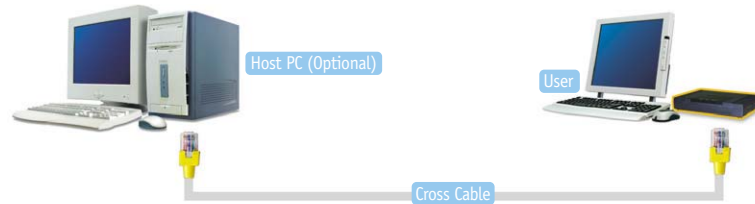


Connect Power Cord

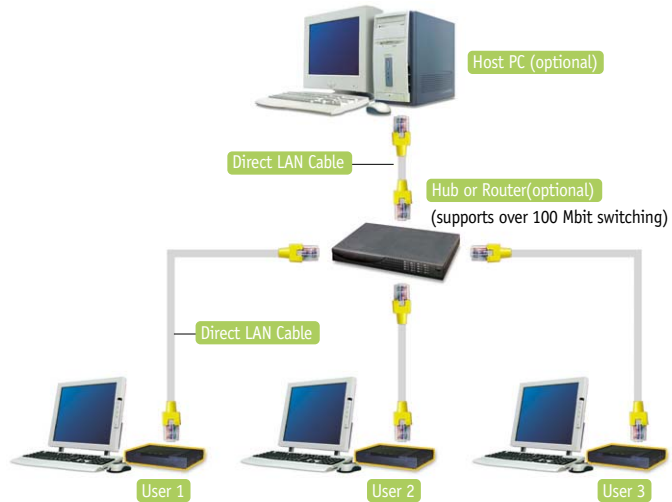


Connecting OfficeStation[®] (L110) with Host PC

○ Direct Connecting



○ Connecting via Network Hub or Router



Chapter 2

Software Installation and Operation

Installing the Software

Setting up Network Configurations

Using the Software

OfficeStation® (L110) Console Management



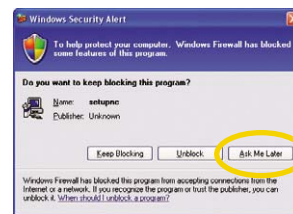
Installing the Software

Before you install the software, please check the connection of the OfficeStation terminal with the Host PC.

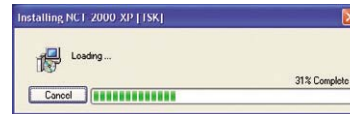
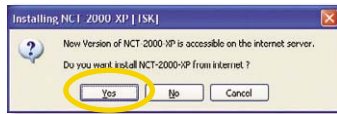
Refer to the following steps :

Installing NCT-2000-XP

- 1 Turn on the Host PC and insert the Software Installation CD into the CD drive after after your computer boots up.
- 2 The installation program will start automatically. When the installation screen appears, click "Install Main Program".
- 3 When starting the installation of our software, the "Preparing to install..." message appears as shown on the left. This means that the program is checking the server has the latest version. Message similar to the one shown in the middle will appear if your internet is not connected. If you have internet connectivity and Windows® XP Service pack 2 is installed, a message similar to the one shown on the right will appear. Click the "Ask Me Later".



- 4 If the server has the latest version, You will be asked if you want to install the latest version as shown on the left. Click “Yes” if you want to install, or click “No” if you want to install the version on the CD. The new version will be downloaded as shown on the right when installing. (It is recommended to select “Yes” to install the latest version. Download may take some time depending on the internet speed)



- 5 The installation program will start automatically. When the installation wizard screen appears, click “Next”.

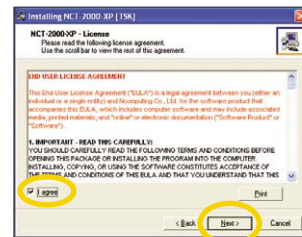


- 6 Please make sure to DISABLE or UNINSTALL any Anti-Virus or Firewall software that may be running in the background. Security software of this type has been tested and known to interfere with the installation and operation of our product. Click “Next”.

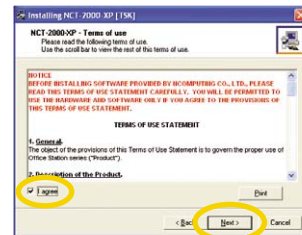


7 | Once the license agreement window appears, check "I agree" and click "Next". If you do not agree with the license agreement, click "Cancel" to finish the process.

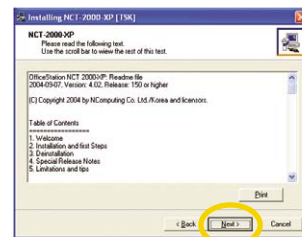
If you want to print in out, please click the "Print" .



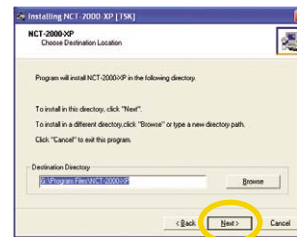
8 | When the NCT-2000-XP-Terms of use window appears, check "I agree" and click "Next". If you do not want to agree to the license, click "Cancel" to finish the process. If you want to print in out, please click the "Print" .



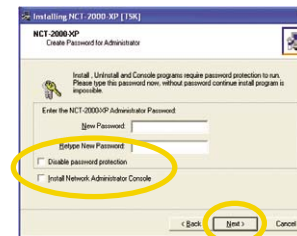
9 | Read the contents of the readme file and click "Next". If you want to print in out, please click the "Print" .



- 10** | Select the installation default folder and click "Next". The "Program Files" is the default installation folder.



- 11** | If the screen same as the one shown on the right appears, select the item that you want to install after confirming the following reference and click the "Next".

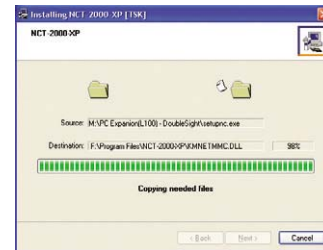
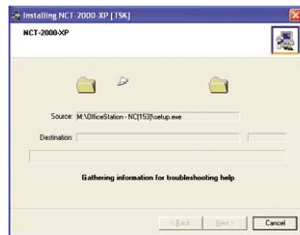


- ▶ **Administrator Password** : If you logon by using this password, you can control the Network Administrator Console.
You should remember the "Administrator Password". If not, you can't execute the program add/delete and management setting.
- ▶ **Network Control Console** : A manager's program to manage local user groups, which can manage computers and OfficeStations connected when many computers are used. When this item is selected and installed, it can be confirmed that "Software Settings (LAN)" item is installed in NCT-2000-XP console after installation of NCT-2000-XP.

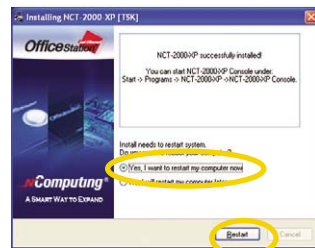
12 Click "Next".



13 After collecting of Help Information, program files will be copied to the hard disk drive.



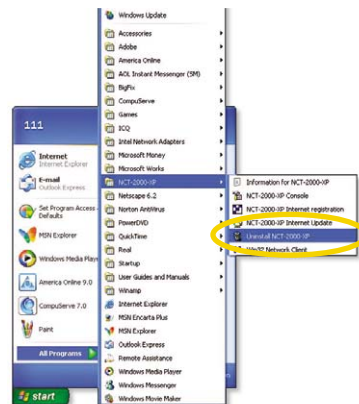
- 14 When the program installation is completed, the message screen for user adding will be appeared.(Refer to the screen) For more details, please refer to "Create a new account" of operating system. When the user adding is completed you will be asked to restart the system(Refer to the below screen). After checking "Yes, I want to restart my computer now" and click "Restart" to reboot your computer.



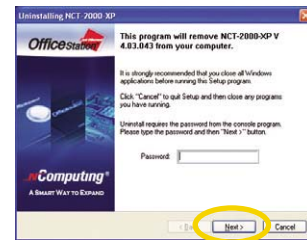
Uninstalling Software

To uninstall the software, follow these steps :

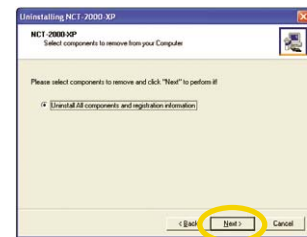
- 1 Click "Start", click "All Programs", click "NCT-2000-XP", and then click "Uninstall NCT-2000-XP".
(For cancellation of S/W serial key registration, please refer to "NCT-2000-XP internet registration" on section 2-32 in user's guide)



- 2 When NCT-2000-XP remove wizard window appears, click "Next". (If you set the Administrator Password, type the password and click "Next")

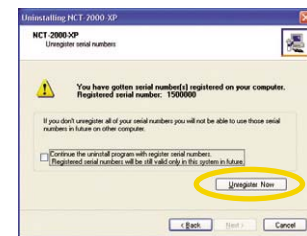


- 3 Click "Next".

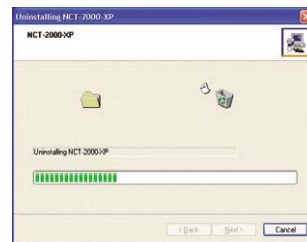


- 4 Instruction message similar to the one shown in the figure appears if a serial number is registered. If a serial number is to be unregistered, click "unregister now".

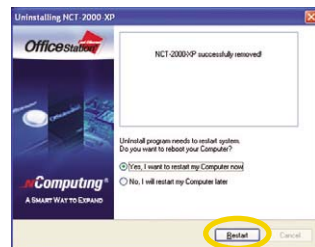
Refer to "NCT-2000-XP Internet Registration" when unregistering. If you want to delete instead of unregister serial number, click item that says "Continue the uninstall program with register serial numbers. Registered serial numbers will be still valid only in this system in future". When this item is selected and the serial number is deleted, you can install NCT-2000-XP next time without inputting serial number. However, you should be careful since this information disappears when hard disk is formatted.



5 | NCT-2000-XP is being deleted.



6 | After the programs have been removed from your computer, check "Yes, I want to restart my Computer now" and click "Restart" to reboot your computer.



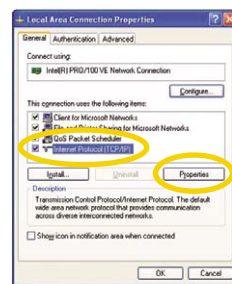
Setting up Network Configurations

If your computer is using Windows® 2000 or XP or 2000 Server or Server 2003 and has a network adapter, you have to configure the network to connect with any OfficeStation terminal(s). To configure your computer's network configurations, please refer to the following :

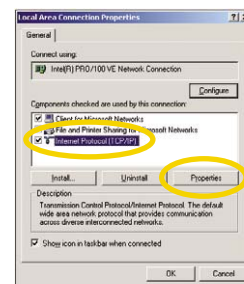
Connecting to the Network by Using a Cable/DSL Router (Support 100 Mbit Switching and DHCP Function)

If you use a Cable/DSL router, you can use dynamic IP addresses. (To use dynamic IP addresses, the router must support DHCP or a dynamic IP address allocation function) If you want to use static IP addresses when using a Cable/DSL router, refer to "Connecting by Using a switch".

- 1 Click "Start" and click "Control Panel". (In Windows® 2000, click "Start", click "Settings", and then click "Control Panel")
- 2 Click "Network and Internet Connections", and then click "Network Connections". (In Windows® 2000, double click "Network and Dial-up Connections")
- 3 Right click on the LAN adapter icon and select "Properties". (In Windows® 2000, right click on the LAN adapter icon and select "Properties")
- 4 Click "Internet Protocol (TCP/IP)" and click the "Properties". (In Windows 2000, click "Internet Protocol (TCP/IP)" and click the "Properties")

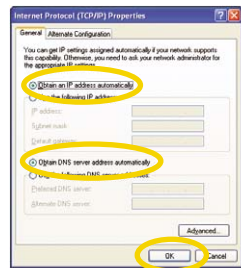


〈Windows® XP〉

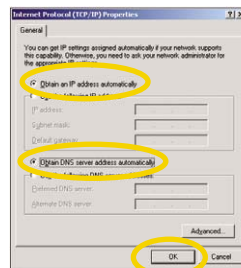


〈Windows® 2000〉

- 5** Check "Obtain an IP address automatically" and "Obtain DNS server address automatically," and then click "OK".



<Windows® XP>



<Windows® 2000>

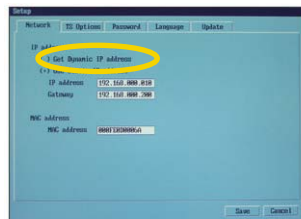
- 6** Turn on the OfficeStation terminal for configuration settings. Click the "Setup".



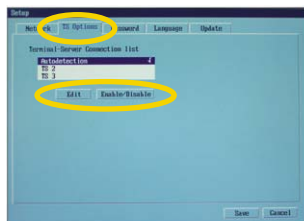
<Press the power button of OfficeStation.>



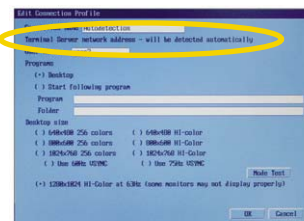
- 7** Viewing the monitor connected to the OfficeStation terminal, the Setup window will appear. In the “Network” tab, check “Get Dynamic IP address”.



- 8** In the "TS Options" tab, "Autodetect" would be activated as the default setting for automatic connection to the Host PC. If it is not connected properly, or if you want to run the “Fail-over” function, click the “Enable / Disable” after selecting. TS 2(or TS 3) and inputting the IP address.



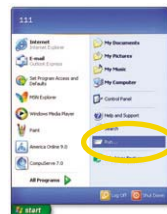
or



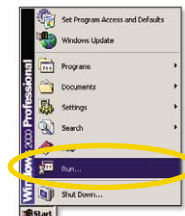


► You have to know the allocated IP address that the Host PC received automatically. You can see the IP address of the Host PC as follows :

❶ Click "Start" on the Host PC. Click "Run".

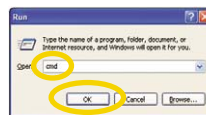


<Windows® XP>

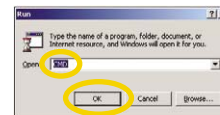


<Windows® 2000>

❷ Type "cmd" in the input box. The DOS prompt window will appear.

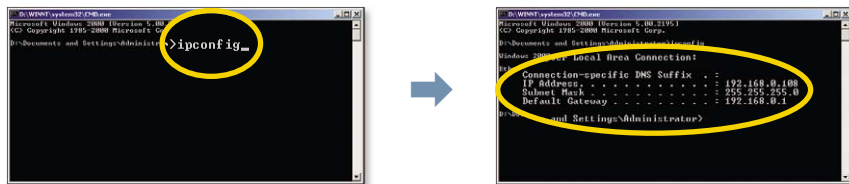


<Windows® XP>



<Windows® 2000>

- ③ Type "ipconfig" in the DOS command line and press Enter. IP address, Subnet mask, and Gateway that was allocated to the Host PC will be displayed on the screen.



- ④ Input the displayed IP address into Terminal Server network address.

- ⑨ If you finished the setting, click "Save". Click "Connect". (or Try Again)

- ⑩ Your OfficeStation terminal should be connected to the Host PC. You are now ready to use your OfficeStation terminal.

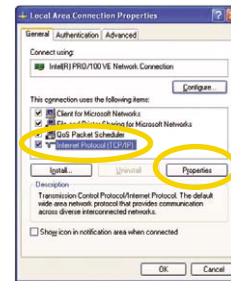
Connecting by Using a Switch (Supports 100 Mbit/sec Switching)

To connect by using a switch, you have to set a static IP address on both the OfficeStation terminal and the Host PC. To configure an IP address as static, follow these steps :

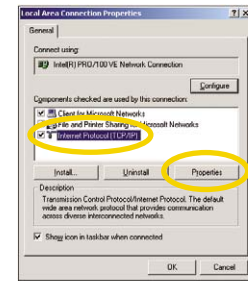
- ① Click "Start" and click "Control Panel". (In Windows® 2000, click "Start", click "Settings", and then click "Control Panel")
- ② Click "Network and Internet Connections", and then click "Network Connections". (In Windows® 2000, double click "Network and Dial-up Connections")

3 Right click on the LAN adapter icon and select “Properties”. (In Windows® 2000, right click on the LAN adapter icon and select “Properties”)

4 Click “Internet Protocol (TCP/IP)” and click the “Properties”.
(In Windows® 2000, click “Internet Protocol (TCP/IP)” and click the “Properties”)

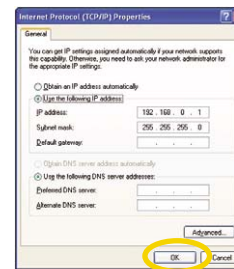


〈Windows® XP〉

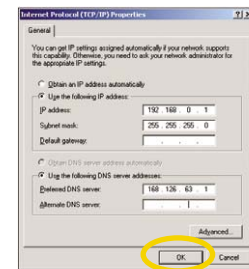


〈Windows® 2000〉

5 Check “Use the following IP address” and input the address of the IP address, Subnet mask, and Default Gateway, and then click “OK”.



〈Windows® XP〉



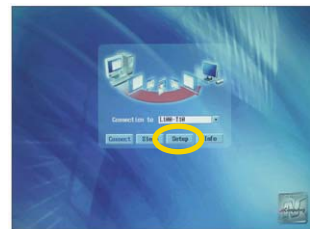
〈Windows® 2000〉

- 6** Turn on the OfficeStation terminal for configuration.

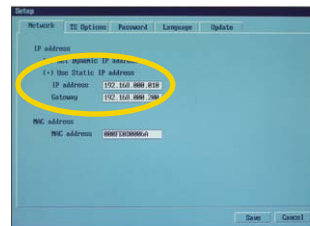
Click the "Setup".



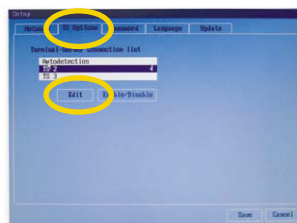
<Press the power button of OfficeStation.>



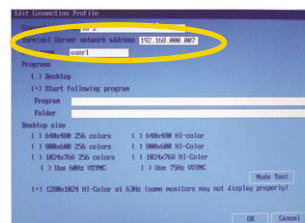
- 7** In the "Network" tab, check "Use Static IP address" and input the IP and Gateway address you want to use.



- 8** In the "TS Options" tab, select "TS 2" and click "Edit" then, input the IP address of the Host PC on the Terminal Server Network address.



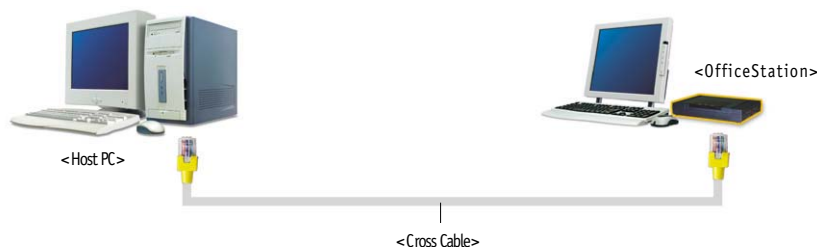
or



- 9** If you are finished with the settings, click "Save".
Click "Connect". (or Try Again)

- 10** Your OfficeStation terminal should be connected to the Host PC. You are now ready to use your OfficeStation terminal.

Directly Connecting the OfficeStation[®] (L110) terminal to a Host PC



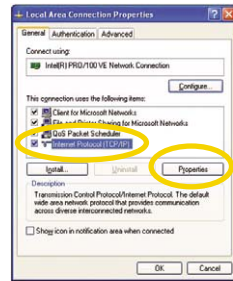
○ Host PC has one LAN adapter and no connection to the Internet

- 1** Click "Start" and click "Control Panel". (In Windows[®] 2000, click "Start", click "Settings", and then click "Control Panel")
- 2** Click "Network and Internet Connections", and then click "Network Connections". (In Windows[®] 2000, double click "Network and Dial-up Connections")
- 3** Right click on the LAN adapter icon and select "Properties". (In Windows[®] 2000, right click on the LAN adapter icon and select "Properties")

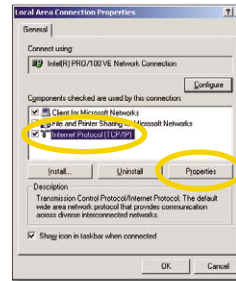


► To connect several OfficeStation systems to a single Host PC, you must have equal number of LAN adapters to the number of OfficeStation terminals that will be connected to the Host PC.

- 4** Click "Internet Protocol (TCP/IP)" and click the "Properties".

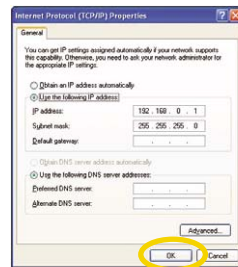


〈Windows® XP〉

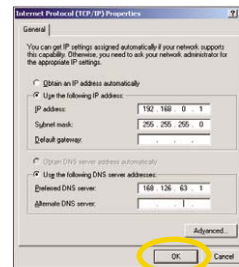


〈Windows® 2000〉

- 5** Check "Use the following IP address" and input as below and click "OK". (For example, IP Address is 192.168.0.1 and Subnet mask is 255.255.255.0. According to the Host PC's configuration, the IP address should be different)



〈Windows® XP〉



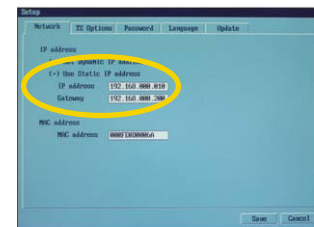
〈Windows® 2000〉

- 6** Turn on the OfficeStation terminal for configuration settings. Click the "Setup".



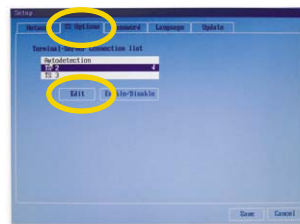
<Press the power button of OfficeStation.>

- 7** In the "Network" tab, check "Use Static IP address" and input IP and Gateway address as below. (For example, IP address is 192.168.0.1 and Subnet mask is 255.255.255.0. According to Host PC's configuration, the IP address should be different)

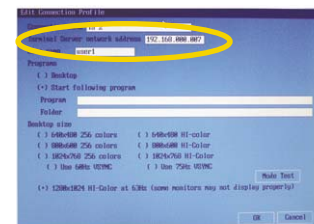


- 8** In the "TS Options" tab, input the Terminal Server Network address as below. (Terminal Server Network address : 192.168.0.001)

*only use this address if it follows your IP addressing scheme.



or



- 9** If you have finished the settings, click "Save" then click "Connect".

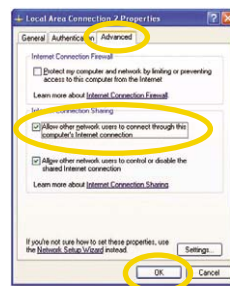
- 10** Your OfficeStation terminal should be connected to the Host PC. You are now ready to use your OfficeStation terminal.

Host PC has two LAN adapters and one of the LAN adapter connected to the Internet

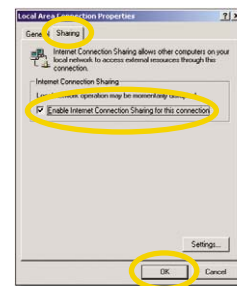
If your Host PC has only one LAN adapter connected to the Internet, you have to install the LAN adapter to connect the OfficeStation terminal to your Host PC. To connect the OfficeStation terminal to your Host PC, refer to "Host PC has one LAN adapter and no connection to the Internet". The setting of the Internet, contact to your ISP.(Internet Service Provider)

The setting of the Internet, contact your ISP.(Internet Service Provider)

- 1** Click "Start" and click "Control Panel". (In Windows® 2000, click "Start", click "Settings", and then click "Control Panel") Click "Network and Internet Connections", and then click "Network Connections". (In Windows® 2000, double click "Network and Dial-up Connections")
- 2** Right click on the LAN adapter icon and select "Properties". (In Windows® 2000, right click on the LAN adapter icon and select "Properties") In the "Advanced" tab, check "Allow other network users to connect through this computer's Internet connection" in Internet Connection Sharing and click "OK". (In Windows® 2000, in the "Sharing" tab, check "Enable Internet Connection Sharing for this connection" and click "OK")



<Windows® XP>



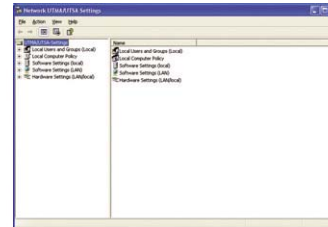
<Windows® 2000>

- 3** Click "Yes" to restart your computer.



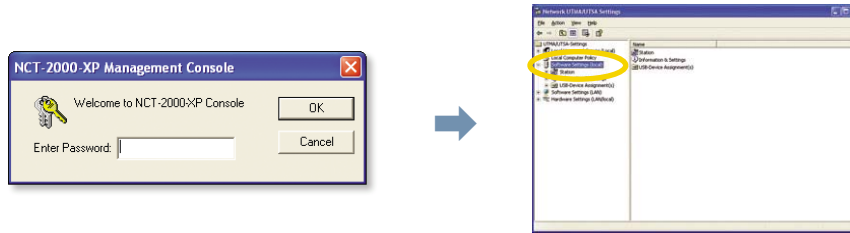
- 4** For the next settings, refer to "Host PC has one LAN adapter and no connection to the Internet".

MEMO



Explaining Software Settings(local) Function

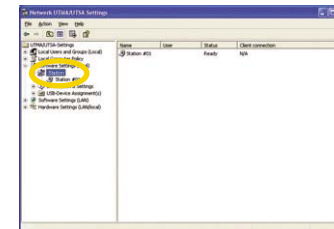
You can refer to the options and function of each option. If you select the “Software Settings(local)” window, you will be able to see the “NCT-2000-XP Management Console” window. Type the password and click “OK”. (If you select the “Disable password protection”option, during software installation, the “NCT-2000-XP Management Console” window will not appear)



Please store the administrator password for safe keeping. We are not responsible for misplaced passwords.

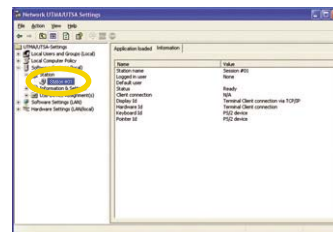
Station

You can see the status of the OfficeStation terminal when connected to the Host PC.



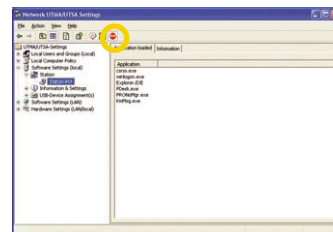
Station #01

If you select this item, you can see the lists of the operating programs and information for each connected OfficeStation terminal.



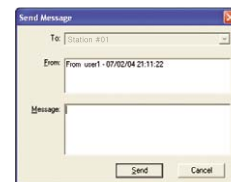
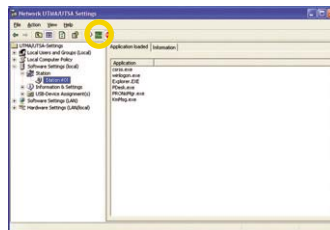
Stop Station

This is a shortcut icon to logoff of the connected OfficeStation terminal.



Send Message

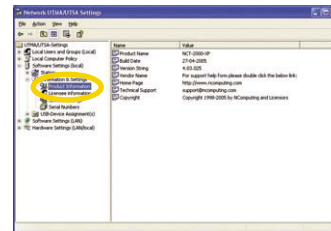
This is an icon to send message from Host PC to OfficeStation terminal or send the message to OfficeStation terminal connected to the Host PC. (For sending messages, the user needs to have administrative capabilities)



Information & Settings

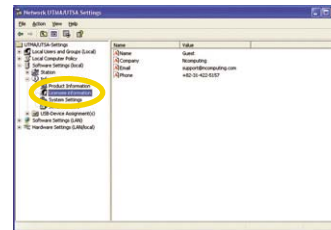
Product Information

Shows the product information, manufactured date, manufacturer, copyright, and web site for technical support.



User License Information

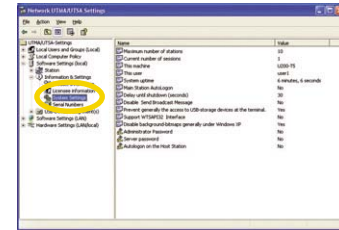
Shows the user information.



System Settings

Shows the general system information.

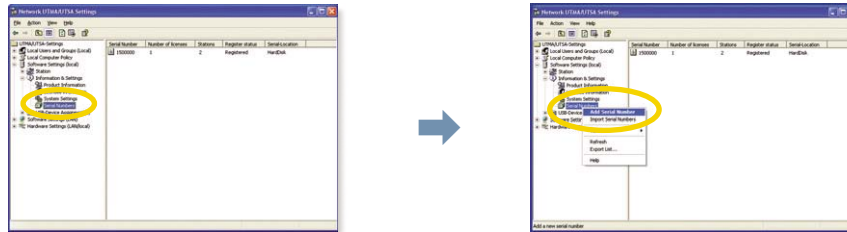
- ❶ Maximum number of stations : Shows the maximum number of stations that can be connected to a Host PC.
- ❷ Current number of stations : The number of stations which are currently logged on to the Host PC.
- ❸ This machine : Name of the Host PC.
- ❹ This user : Name of the user.
- ❺ System uptime : Runtime of the OfficeStation terminal since the computer was started.
- ❻ Main station Auto Logon : You can switch on or off the auto logon when the main station has no password.
- ❼ Delay until shutdown (seconds).
- ❽ Disable Send Broadcast Message : Yes/No.
- ❾ Support WTSAPI32 Interface : Select setting status “Yes” to execute program using Windows RDP function.
- ❿ Disable background-bitmaps generally under Windows XP : Yes / No
- ⓫ Administrator password : Can change password for NCT-2000-XP Console. Please be careful about password management. We will not be responsible for lost password.
- ⓬ Server password : Can set server password.
- ⓭ Auto Logon on the Host Station : Automatic logon can be set so that user does not have to input account and password every time system is booted. Account and password are input when setting Auto Logon and Logon screen will not appear when system is booted after Auto logon is set.



Serial Numbers

Depending on the product, either user has to input the serial number or the serial number is automatically input (for the product with serial number included) when installing the software. In order to input manually, click right mouse in the right side of the screen.

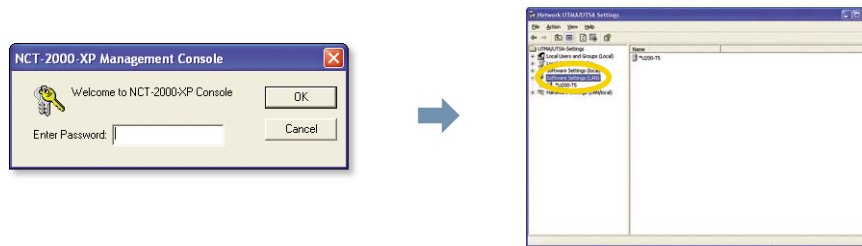
- ❶ Add Serial Number : You can add the serial number when a window appears.
- ❷ Import Serial Numbers : You can save the text type serial number to a group. The Administrator does not need to input every serial number.



MEMO

Software Settings (LAN)

You can see the information of the Host PC or OfficeStation terminal that is connected on the network.



NCT-2000-XP Internet Registration

To register via Internet, follow these steps :



- ▶ Serial number and activation key for the product purchased should be registered by user using internet or other method. Serial number should be unregistered when changing to new computer, reformatting or changing hard disk. Serial number and activation key can only be registered three times if they are not unregistered.

- 1 Click “Start”, click “All Programs”, click “NCT-2000-XP”, and then click “NCT-2000-XP Internet Registration”.



- 2 Click “Next”. (If you entered an administrator password, please input it)

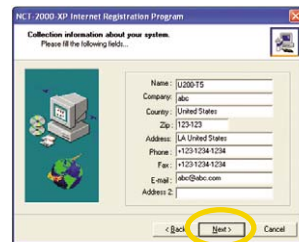


Note

- If you select the “Disable password protection” option, during software installation, the window requiring the password will not appear.



3 | Input user information correctly and click “Next”.



4 | Choose one of the methods to register and click “Next”.

- **On Line : Connected to the internet**
 - “On Line – Register by Internet”
 - “On Line – Unregister via Internet”
- **Off Line : Not connected to the internet or on-line registration is not available**
 - “Off Line – Registration via File/Email”
 - “Off Line – Unregistration via File/Email”
 - “Off Line – Cancel Registration”
 - “Off Line – Key Input”





► “On Line – Register by Internet” Option

This option can be used to register by connecting directly to the Ncomputing's FTP server when the Host PC with NCT-2000-XP installed is connected to the internet. Program update and technical support can be provided only if serial number and user are registered.

❶ Select “On Line - Register by Internet” option and click “Next”.



❷ Select serial number to be registered and click “Next”.



❸ Screen showing user's registration information appears. Click “Back” if information needs to be changed, otherwise click “Next” to continue.



- 4 Start registering the serial number if all information is correct. Registration may not be completed if Host PC is turned off or internet is disconnected during registration.



- 5 Registration is complete. Click "Finish".



► "On Line – Unregister via Internet" Option

Serial number should be unregistered before NCT-2000-XP is deleted when existing Host PC is to be changed or hard disk is to be reformatted after serial number is registered. This option can be used to unregister serial number after registered using "On Line - Register by Internet" option. This option should be used to unregister serial number when serial number was registered using "On Line - Register by Internet" option.

- 1 Select "On Line -Unregister via Internet" option and click "Next".



- 2 Select serial number to be unregistered and click "Next".



- 3 Screen showing user's registration information appears. Click "Back" if information needs to be changed, otherwise click "Next" to continue.



- 4 Start unregistering serial number if all information is correct. Registration may not be completed if Host PC is turned off or internet is disconnected during registration.



- 5 The unregistration process is complete. Click "Finish".



► "Off Line – Registration via File/E-mail" Option

This option can be used when the Host PC with NCT-2000-XP installed is not connected to the internet or on-line registration is not available. After selecting "Off Line - Registration via File/E-mail Document" option and creating necessary data file, send the data file by e-mail from other computer with internet connection or send the diskette or CD to the product supplier or agent so that they can assist you in registration.

- 1 Select "Off Line - Registration via File/E-mail Document" option and click "Next".



- 2 Select serial number to be registered and click "Next".



- ③ Screen showing user's registration information appears. Click "Back" if information needs to be changed, otherwise click "Next" to continue.



- ④ Select file path and name to be created and click "Next". Default file path and name are "My Document" and "RGFSerailNumber.txt", respectively.



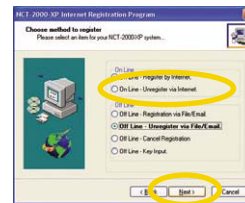
- ⑤ If successfully completed as shown in the figure, send the file with registration information to the registration center or agent. Click "Finish".



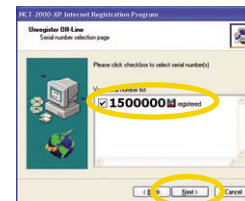
► “Off Line – Unregistration via File/Email” Option

This option must be used when canceling registration after registered through registration center or agent using file created with “Off Line - Registration via File/E-mail Document” option. After creating file needed for canceling registration, send the data file by e-mail from other computer with internet connection or send the diskette or CD to the product supplier or agent so that they can assist you in canceling registration.

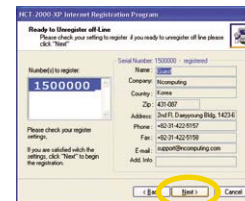
- ① Select “Off Line - Unregistration via File / E-mail” option and click “Next”.



- ② Select serial number to cancel registration and click “Next”.



- ③ Screen showing user's registration information appears. Click “Back” if information needs to be changed, otherwise click “Next” to continue.



- ④ Select file path and name to be created and click “Next”. Default file path and name are “My Document” and “URGFSerialNumber.txt” respectively.



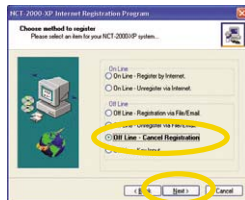
- ⑤ The unregistration process is completed. Please send the file created to the registration center or agent. Serial number can be reused later only if registration is cancelled by the registration center or agent using file created. Click “Finish”.



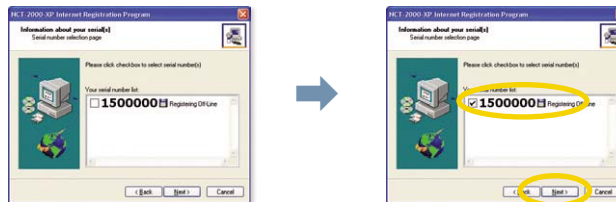
► “Off Line – Cancel Registration” Option

This option is used when unregistering using “Off Line - Registration via File/E-mail” option and before receiving registration key from registration center or agent. Note that after completing this option, registration can not be done again using document created with “Off Line - Registration via File/E-mail” option. Therefore, “Off Line - Registration via File/E-mail” option should be completed and the file created thus should be sent to the registration center or agent again for re-registration.

- ① Select “Off Line -Cancel Registration” option and click “Next”.



- ② Select serial number to be canceled and click "Next".



- ③ Screen showing user's registration information appears. Click "Back" if information needs to be changed, otherwise click "Next" to continue.



- ④ The "Cancel Registration" process is complete. Click "Finish".



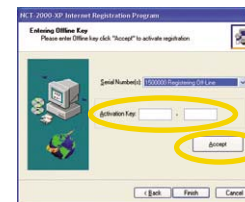
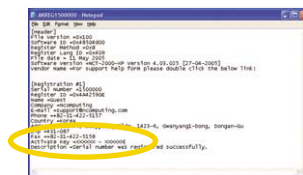
► “Off Line – Key Input” Option

This option is used to register serial number after sending file created using “Off Line - Registration via File / E-mail” option to and receiving text file from the registration center or agent.

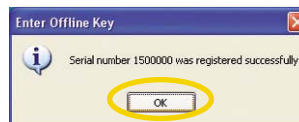
- 1 Select “Off Line - Key input” option and click “Next”.



- 2 Text file received from the registration center or agent has two sets of six digit numbers, a total of twelve digits in the “Activate Key” section. Enter this twelve digit approval number into “Activate Key” section as shown on the right figure.



- 3 Message similar to the following figure appears if serial number and activation key are entered correctly. Click “Accept” and click “OK”.



NCT-2000-XP Internet Update

If you finished registering, you can update your NCT-2000-XP via Internet.

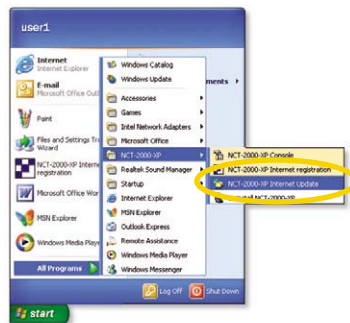
Update via File

With the file that you downloaded via the Internet, (On a diskette, hard disk drive, CD, or USB memory stick) you can update the NCT-2000-XP. (In this case, you have to finish the user registration. You will also have to cancel the serial number and remove the old version NCT-2000-XP, and then install the new NCT-2000-XP)

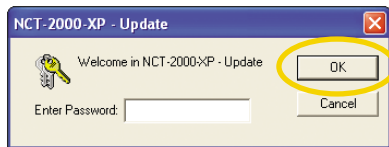
Update via the Internet

To update via the Internet, you must first register. Updating via the Internet is more convenient and secure, because the old version is backed up before any update is executed. If something goes wrong during the update process, the user can restore it to the previous backup. To update via the Internet, follow these steps :

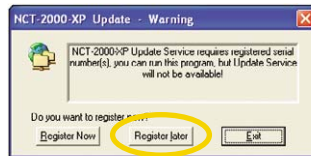
- 1 Click "Start", click "All Programs", click "NCT-2000-XP", and then click "NCT-2000-XP Internet Update".



- 2 When the "Enter Password" window appears, type the password and click "OK". (If you select the "Disable password protection" option, during software installation, the window requiring the password will not appear)



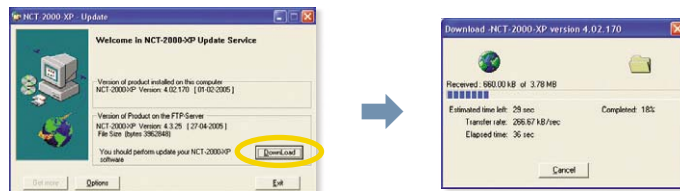
- 3 To do continuous upgrade, you have to do "Internet Registration". If you have already registered, update will go on by click the "Register later". In the case of not doing "Internet Registration" please do update "Internet Registration" by click the "Register Now".



- 4 Click "Connect".



- 5 | Installed version and the version in the FTP can be confirmed. If FTP has newer version, click "Download" to download.
(Download may take some time depending on the internet speed)



- 6 | After finishing download of update file, program set up will proceed as Section 2-3 of "Software installation and operation".

MEMO

OfficeStation[®] (L110) Console Management

Thank you for buying the NComputing OfficeStation terminal(s). This User's guide tells you how to use and configure the OfficeStation terminal(s).

This program user's guide follows the basic process that you will use to setup and use the administrator console and improve the security of your shared Host PC environment.






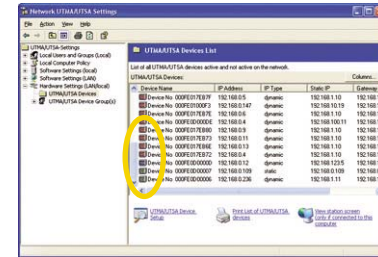
► *This user's guide provides instructions of OfficeStation(s) connection function and management. Its is recommended to read this user's guide carefully before using this new program.*

Hardware setting(LAN/Local) start menu

Settings for OfficeStation connected to the network can be changed from the administration console. ("UTMA/UTSA Device" shows information of the OfficeStation connected to the Network) Select the OfficeStation whose settings are to be changed and click "UTMA/UTSA Device Setup" to change the setting. ("UTMA/UTSA Device Group(s)" can assign several OfficeStations into a group to manage)

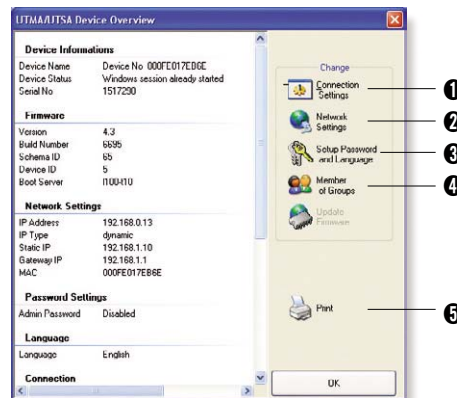
1 Click “Hardware settings(LAN/Local)” in the NCT-2000-XP Console menu.

-  Connected with Host PC in Local Network. (Green Color Icon)
-  Disconnected with Host PC in Local Network. (Blue Color Icon)
-  Turn Off state but as of old connected with Host PC more than one times. (Red Color Icon)



2 Choose the one “UTMA/UTSA Devices”, and double click OfficeStation Device setup Icon.

3 “UTMA/UTSA Device Overview” for remote OfficeStation connection.



❶ Connections Settings : OfficeStation setup → Same item as “TS option” setup and can change the settings for the Host PC to be connected.(Remote OfficeStation connection include auto connection)



❷ Network Settings : OfficeStation setup → Same item as “Network” and can change.



❸ Setup Password and Language : OfficeStation setup → Same item as “Password” and “Language” and can change the setting values of password and language for OfficeStation.

❹ Member of Groups : Shows groups currently set up. Groups to which OfficeStation are assigned can be added or deleted.

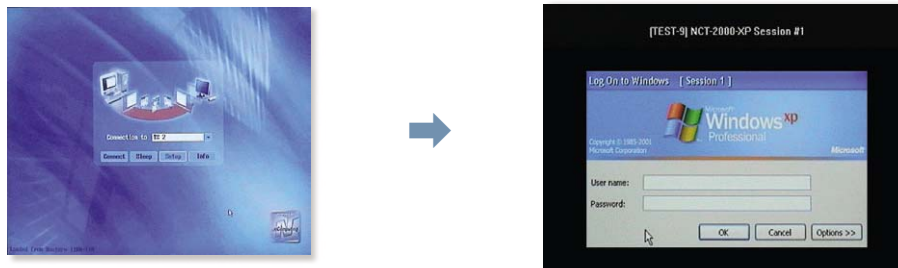
❺ Print : Can print the content of setup window shown on the screen.



► OfficeStation information (Connections Settings, Network Settings, Setup Password and Language) changed in the “UTMA/UTSA Device Setup” menu will be applicable OfficeStation after is rebooted.

Auto Connection Function

With the “Auto Connection” function, you can easily connect to a Host PC without using the OfficeStation main setup screen.

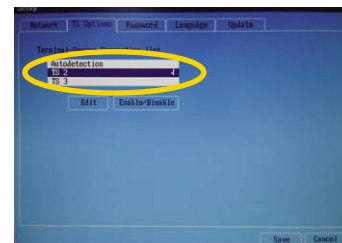


- 1** Turn On your OfficeStation device.
- 2** Next, you will automatically go into the Windows Logon dialog box screen without having to press the “Connect” .
- 3** Fill in the “User name” and “Password”.

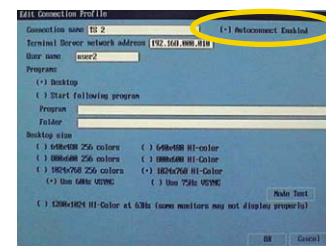
● Introducing the Auto connection setup

Setting up your Auto Connection menu from OfficeStation main setup

- 1 Click "Setup" to setup your connection menu.
- 2 Click "TS Options".
- 3 Select "TS 2" then click "Enable/Disable".
(You must Disable the Autodetection selection)



- 4 Click "Edit" to select the option menu.

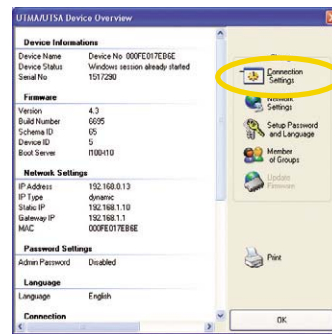


- 5 Click "Autoconnect Enabled".

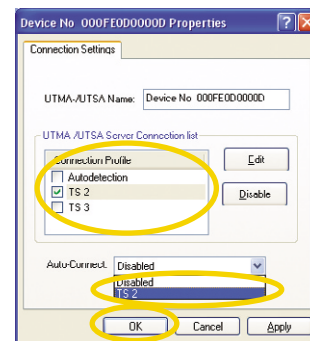
- 6 Click "OK" to save all settings.

Setting up your Auto Connection menu from NCT-2000-XP Console

- 1 Click “Hardware Settings (LAN/Local)” menu from NCT-2000-XP Console.
- 2 Click “UTMA/UTSA Devices” setup menu.
- 3 Select the target OfficeStation devices then double click.
- 4 Click “Connection Settings” to connection settings.

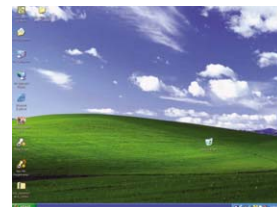


- 5 Click “TS 2” connection profile.
(You must Disable the Autodetection selection)
- 6 Click “OK” to save all settings.



Auto Logon Function

With the “Auto Logon” function, you can easily connect to a Host PC(s) without fill in the Windows Logon dialog box.



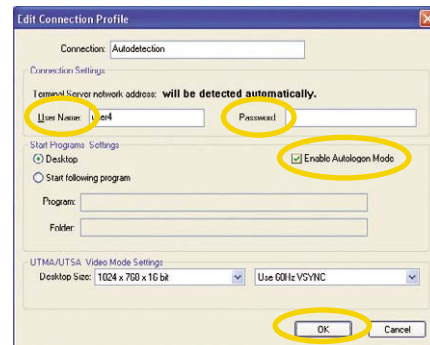
- 1 Turn on your OfficeStation device.
- 2 Click “Connect” of main setup screen.

- 1 Automatically go in to the Windows main screen due to setting the “User Name” and “Password” already.

○ Introducing the Auto Logon setup

Setting up your Auto Logon menu from NCT-2000-XP Console.

- 1** Click “Hardware Settings(LAN/Local)” menu from NCT-2000-XP Console.
- 2** Click “UTMA/UTSA Devices” setup menu.
- 3** Select target OfficeStation devices then double click.
- 4** Click “Connection Settings” to connection settings.
- 5** Select connection profile(Autodetection, TS 2, TS 3).
- 6** Click “Edit” from connection profile.
- 7** Click “Enable Autologon Mode”.
- 8** Fill in the “User Name” and “Password”.
- 9** Click “OK” to save all settings.
- 10** Click “OK” from “Connection Settings”.



► If you use “Auto Logon” and “Auto Connection” function together, you can connect to the Host PC easily.

USB Device Assignment(s)

The USB port in the Host PC can be set to use USB storage devices connected to the Host PC in each OfficeStation. When a USB storage device is connected, the USB storage devices connected to each port is shown on the screen. Change the settings by clicking the applicable port for each USB storage device connected that is to be used in the OfficeStation or applicable Host PC.

The setting window appears when the applicable port is clicked as shown in the figure to the right.

The default setting is "Use the default prevention setting from the system settings". This setting is allowed to be used for the Host PC and OfficeStation. To use USB storage device in the Host PC and OfficeStation, deselect default setting and click OfficeStation or main console(refers to Host PC).



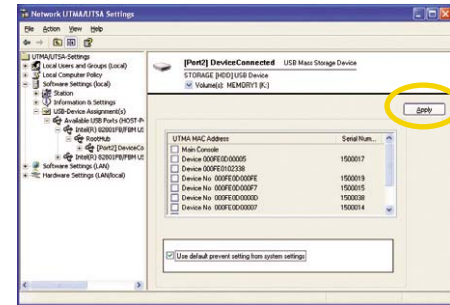
▶ *USB-Device Assignments only supports USB type storage device. It does not support USB keyboard or other devices.*

○ Introducing the USB Port Assignment(s) setup

Setting up the USB Port Assignment(s) from the NCT-2000-XP Console.

- 1** Click "Software Settings(local)" menu from the NCT-2000-XP Console.
- 2** Click "USB device Assignment(s)" setup menu.
- 3** Click "ROOT hub" then select the appropriate port.

- 4 Click "Use default prevent setting from system settings" then select "UTMA MAC Address" to share the USB Port Assignment(s).
- 5 Click "Apply".




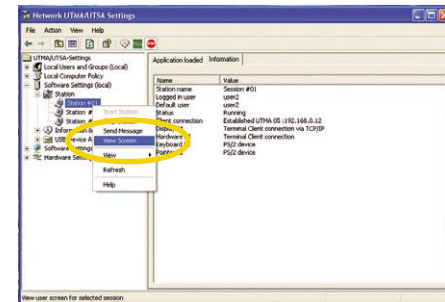
View Screen and Management Function

Through the console you can view the screen of the OfficeStation selected. Users must have Admin authority to activate this function.

Introducing the View Screen setup

Setting up your View Screen menu from the NCT-2000-XP Console.

- 1 Click "Software Settings(local)" menu from NCT-2000-XP Console.
 - 2 Click "Stations" then select the target station.
 - 3 Click "View Screen" for monitoring OfficeStation(s).
- (Or click "View icon()" from console menu bar)



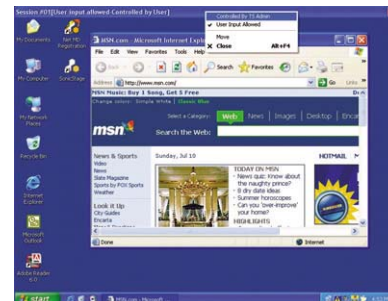
OfficeStation(s) Management

Introducing Management setup

- 1 Click the right mouse button on the menu bar of selected user form view screen.
- 2 Click “Controlled By TS Admin” to control OfficeStation screen.
(“User Input Allowed” menu is used to allow the OfficeStation user to control the main screen)



► Depending on the model, your OfficeStation's functions may look slightly different than those from this NCT-2000-XP user's guide.



APPENDIX

FAQ

FAQ

Glossary

FCC Information to Use

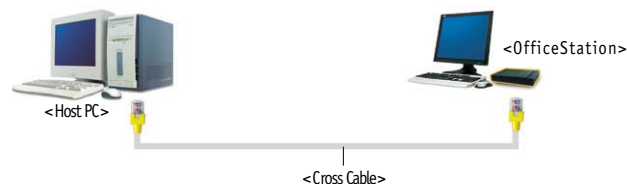


FAQ

Network Configuration Setting

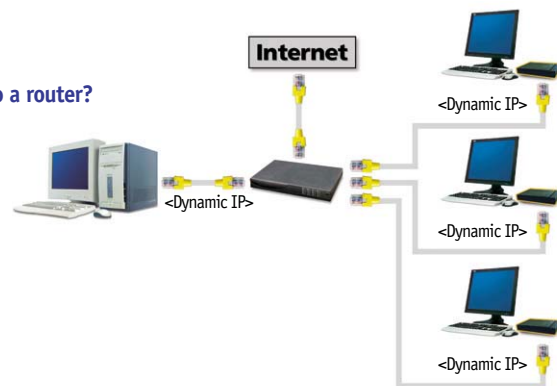
Q How do I connect the OfficeStation directly to the Host PC?

A Use a crossover adapter to connect the OfficeStation terminal to the Host PC. If you use a crossover cable to connect to the Host PC, you do not need a crossover adapter. You can only directly connect one OfficeStation to a Host PC by using a LAN adapter. To connect several OfficeStations you need to install as many LAN adapters equal to the number of OfficeStation terminal(s) that will be connected to the Host PC.



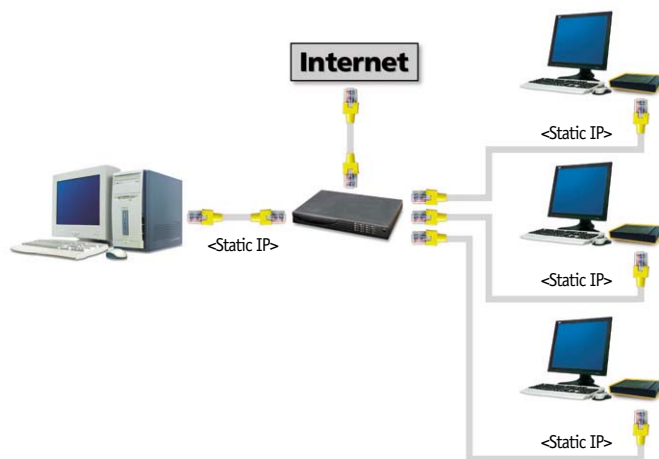
Q How do I use a dynamic IP address when the Host PC is connected to a router?

A A router allocates the IP address dynamically to the Host PCs and OfficeStation terminal(s). Users do not need to set the IP address. Set the network configuration to dynamic IP address in the set up window.



Q If a router/hub is connected to the Host PC, how do I connect an OfficeStation terminal to the Host PC with a static IP address?

A You have to allocate the static IP address of the Host PC and the OfficeStation to OfficeStation terminal(s) through a router/hub.
(Contact your network manager to get the static IP address of the Host PC)



Q I am not connected and a screen displays the "DHCP server was not found" message.

- A**
- OfficeStation is set to get the IP address dynamically. If you enter the setup screen of the OfficeStation by pressing "Setup", you can check in the "Network" tab and make sure that the "Get Dynamic IP Address" option is selected. To use this option the router has to have DHCP server functionality activated. If you do not have a router, you have to install a Host PC that can allocate the DHCP addresses on your network. When you connect the OfficeStation directly to a Host PC, you can not use this option. In this case, select "Use Static IP address" and input IP address. Using IP router, check whether the DHCP function is activated, power is on, and LAN cable is connected.
 - Turn off the OfficeStation terminal and wait several seconds, and then turn it back on.
 - If you use a firewall program and certain outer protocols are blocked, you might not be able to connect to the OfficeStation terminal.

Q When I am connected to the Host PC by pressing the Connect button, the "Host unreachable..." message appears and I can't connect.

- A**
- If there are no PCs on a network, this message appears. Check whether the Host PC is turned on. If it is turned on, check whether the IP address of Host PC and the Terminal server IP address of OfficeStation are the same. You can check the IP address of the Host PC by running the ipconfig.exe command in the command line of the DOS prompt. (For more information, refer to page 2-13) Also, check the LAN cable connection. If you are using a hub or a router, check whether the hub or router is turned on and check the LAN cable connection. If the OfficeStation is directly connected to a Host PC and there is no problem with the network connection, refer to the following steps :
1. Click "Start" and click "Control Panel".
 2. Double click the "Network Connections" icon.
 3. Right click the "Local Area Connection" icon and click "Properties".
 4. Select the "Advanced" tab.
 5. If the "Internet Connection Firewall" option is checked, click the "Settings".

6. Remove the check for the “Remote Desktop” option in the “Advanced” tab of the “Advanced Settings” window.
- If you use a certain firewall program that blocks the outer connection, you can't use your OfficeStation terminal.
 - Turn off the OfficeStation terminal and wait several seconds, and then turn it on.
 - Check to make sure that any third party Antivirus, Firewall, or security related programs do not interfere with our software. Please disable these programs before the initial setup.

Q My mouse works but all of the other devices do not function properly. The NCT-2000-XP Console shows the station is operating well.

A This phenomenon occurs when the LAN cable is unplugged by accident or the router or switch is shut down. In this status, the controller of OfficeStation operates the mouse, so you feel as if the station is running. By the unstable power supplied to device is not stable or other reasons, this phenomenon occurs also.

Please check :

- Connection of the LAN cable.
- Operating status of the network device such as a router or switch.
- Stability of the power. (You can prevent by using UPS)

Q Can I use OfficeStation on an old dummy hub or Network Device?

A Our product is designed for 100 Mbps switches or routers. It does not support 10Mbps network devices. This product is strongly recommended for 100 Base-TX fast ethernet network devices only.

Q What games can I play?

A You can run only 2D games and Internet casual games such as a java and flash type.

Refer to the list below for what is not supported through OfficeStation :

- 3D games that require GPU or hardware accelerator.
- Single user game that requires the program CD.
- Runs at only one registered PC and checks the IP address of the system.

Q I can't play the video in full screen mode with the OfficeStation.

A Our product shares the resources of the Host PC, so the memory and Host PC resources is limited and the performance speed is dependant on the Host PC's specification. Playing the video in full screen mode takes a lot of system resources. We recommend playing the video in an appropriate screen size that does not reduce the system speed.

OfficeStation is designed to run applications at the office such as a surfing the Internet, word processing, or working with spreadsheets.

Q Will this work in Windows® 98?

A OfficeStation supports Windows® 2000 Professional, Windows® XP Home Edition, Windows® XP Professional, Windows® 2000 Server and Windows® Server 2003(Standard Edition / Enterprise Edition). For supporting other OS, needs special technical support and cost.

Q I can't connect the OfficeStation to the Host PC anymore.

A After you install patch files from Windows update, this can occur. Please uninstall the patch files or download and install the updated OfficeStation software from our FTP site. It might take some time for us to upload the updated software.

Q I want to upgrade the speed of the OfficeStation.

A Refer to the below items for an increase in the speed:

- Use a CPU which utilizes Hyper-Threading technologies and large L2 Cache memory size.
- Install more RAM.
- Purchase a new hard disk drive with faster access speeds.(fast rpm)
- Add more LAN adapters when multiple OfficeStation are connected through the switch.
- Reduce the number of OfficeStation connection to Host PC by adding more Host PC to connect.

Q In OfficeStation, message of "No Terminal Server found or not all services initialized yet, please click on the connection list and try it again." appears.

A This message appears when there exists no Host PC with NCT-2000-XP installed in the network currently connected. Check if NCT-2000-XP is installed in Host PC or Host PC with NCT-2000-XP installed is connected to the network.

Q When “Connect” is clicked in OfficeStation, “TS ERROR - INVALID OR NO SERIAL NUMBER” message appears and no connection is made.

A This message appears when there is no serial number in the Host PC that OfficeStation is trying to connect to. To be connected to OfficeStation, serial number should be registered in the NC-2000-XP console of the Host PC. Serial number can be found under the bottom of OfficeStation purchased.

Q Connection stops while using OfficeStation and message of “Connection was closed but your data is not lost and applications still run at server side. Please connect Terminal Server later” appears.

A This message appears when connection stops due to problems or abnormality occurred in Host PC or network equipment. Check Host PC or network equipment when this message appears and restart after turning off the power of Host OfficeStation. Unless Host PC is rebooted, existing data in the Host PC may be used as is.

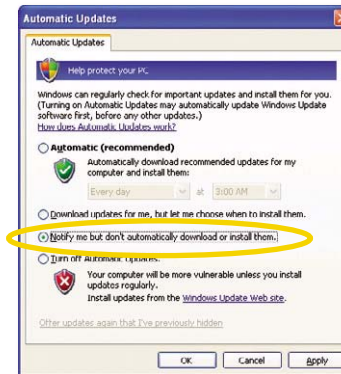
Q OfficeStation can not be connected even after program installation.

A This can happen in one of the following cases.

- LAN cable is not connected to the Host PC with program installed. → Connect LAN cable to Host PC.
- LAN cable is not connected to OfficeStation → Connect LAN cable to OfficeStation.
- LAN cables are connected to both Host PC and OfficeStation → Verify IP settings for both Host PC and OfficeStation. (Refer to Network setting of the user's guide)

Q Connection stops after the message shown in the following figure appears.

A MS Windows regularly checks for important updates and install them for you. If automatic update in the “Security Center” of “Control Panel” is selected, update will be automatically downloaded at selected day and time without asking user. This could happen since security update files are related with NCT-2000-XP, and therefore, automatic update should not be selected by clicking “Notify me but don't automatically download or install them” instead. Ncomputing updates for new version within 3 to 7 days so that users do not have any problem in using OfficeStation.

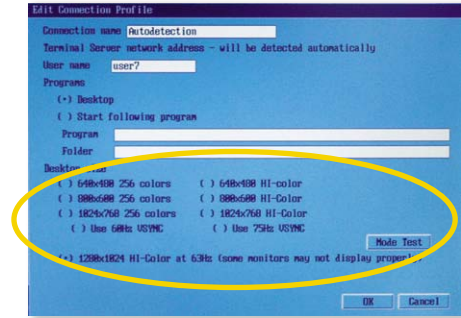


Q Status of serial number appears as “Expired” and OfficeStation can not be connected.

A This happens when user changed Host PC's system date to the date earlier than the date NCT-2000-XP is installed. Change Host PC's system date to the current date.

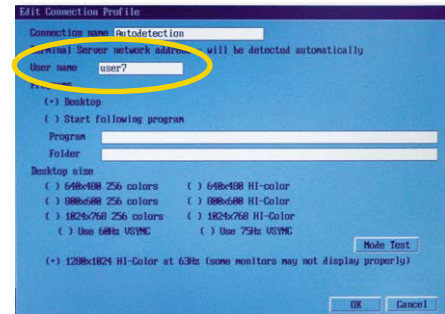
Q I have changed screen resolution setting in Windows, however, resolution changes after log off and on again.

A OfficeStation itself has ability to set screen resolution. In the initial screen of OfficeStation, select “Setup” → “TS Options” → “Edit” and screen same as the figure shown above appears.(resolution in the figure may vary depending on the product) Resolution selected in this way becomes the basis when logging on Windows and even if user sets different resolution in Windows, resolution set in OfficeStation will override when Windows is logoff and on again. Therefore, resolution user wants should be set in OfficeStation. Click “Save” after selecting desired resolution.



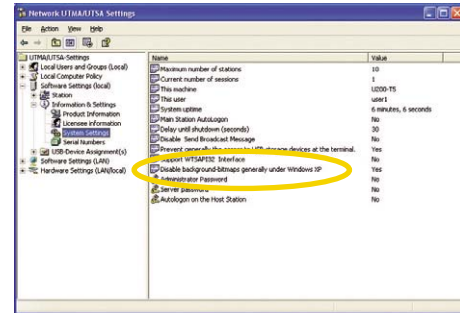
Q Can I have the user's name appear when logging on OfficeStation?

A Yes, you can. In the initial screen of OfficeStation, select “Setup” → “TS Options” → “Edit” and screen same as the figure appears. Name same as the one entered in the “User name” will appear on Windows log on screen. Only English is supported and password can not be set on the Windows logon screen.



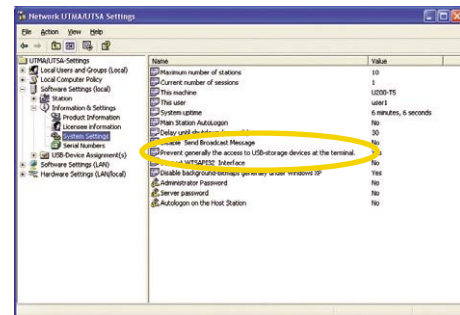
Q Desktop background selected in Windows disappears whenever OfficeStation is logged on OfficeStation?

A User has option to show or not to show the background selected in Windows. After executing NCT-2000-XT, select “Software Setting (local)” → “Information & Settings” → “System Settings” and screen same as figure appears. Among many setting items on the right of the screen, note the item saying “Do not display Desktop Background”. Default setting is “Yes” which means Desktop Background selected in Windows will not be displayed when OfficeStation is logged on. Double clicking this item will change the setting to “No” which means desktop background selected in Windows will be displayed.



Q USB storage device connected to Host PC can not be used in OfficeStation.

A You must change the setting to use USB storage device in OfficeStation. After executing NCT-2000-XT, select “Software Setting (local)” → “Information & Settings” → “System Settings” and screen same as figure appears. Among many setting items on the right of the screen, note the item saying “Prevent access to USB-storage devices at the terminal”. Default setting is “Yes”. Therefore, change the setting to “No” by double clicking this item if USB storage device is to be used in search after logged on to OfficeStation.



Glossary

Multi user WoIP (Windows over IP)

New network protocol that enables a PC to operate multi windows simultaneously in virtual memory and the registered multi user can access through TCP/IP by using OfficeStation. This technology does not require a high priced server and supports the multi user access through terminal.

UTMA (Ultra Thin Multi Access[®]) Multi User Terminal using SoC (System on Chip)

UTMA (Ultra Thin Multi Access[®]) Multi User Terminal is a network computing terminal using Ncomputing patent technology. It doesn't use CPU, VGA, and main chipset, only use a programmable SoC to connect to Host PC. A terminal using UTMA technology can be connected to Host PC by using the LAN cable. Also, it can be connected to remote PC through Internet using TCP/IP.

※ The information within this user's guide is subject to change without notice.

FCC Information to Use

Note This equipment has been tested and found to comply with the limit for a Class B digital device, pursuant 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions. May cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. IF this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or the following measures :

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio TV technician for help.

Change or modification not expressly approved by the party responsible for Compliance could void the user's authority to operate the equipment



Rev. B
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For further product and sales inquiry,
please contact us:

Headquarter Office

2nd Floor, Daeyoung Bldg, 1423-6, Gwanyang1-Dong,
Dongan-Gu, Anyang-City, Gyeonggi-Do, Korea 431-870

TEL : 82-31-422-5157

FAX : 82-31-422-5158

Email : sales@ncomputing.com

Hardware R&D, Techsupport

2nd Floor, Daeyoung Bldg, 1423-6, Gwanyang1-Dong,
Dongan-Gu, Anyang-City, Gyeonggi-Do, Korea 431-870

TEL : 82-31-422-5157

FAX : 82-31-422-5158

Email : techsupport@ncomputing.com

NComputing GmbH - Germany

Bahnweg 12, D-91785 Pleinfeld, Germany